

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US2004/024868

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 A61K39/09

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, Sequence Search, WPI Data, PAJ, BIOSIS, EMBASE

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE Geneseq [Online] 2 July 2002 (2002-07-02), "Streptococcus polypeptide SEQ ID NO 9188." XP002334315 retrieved from EBI accession no. GSN:ABP30006 Database accession no. ABP30006 the whole document	24-26
A	-& DATABASE EPO Proteins [Online] 2 February 2004 (2004-02-02), "Sequence 7466 from Patent W00234771." XP002334316 retrieved from EBI accession no. EPOP:CQ650509 Database accession no. CQ650509 the whole document  -/--	3,10-17

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

5 July 2005

Date of mailing of the international search report

28.10.05

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	-& WO 02/34771 A (CHIRON S.P.A; THE INSTITUTE FOR GENOMIC RESEARCH; TELFORD, JOHN; MASIG) 2 May 2002 (2002-05-02) claims 1-28 page 2, line 1 - page 10, line 16 -----	1-17, 21-27
X	DATABASE Geneseq [Online] 19 June 2003 (2003-06-19), "Protein encoded by Prokaryotic essential gene #31978." XP002334512 retrieved from EBI accession no. GSN:ABU46451 Database accession no. ABU46451 the whole document	24-26
X	-& WO 02/077183 A (ELITRA PHARMACEUTICALS, INC; WANG, LIANGSU; ZAMUDIO, CARLOS; MALONE, C) 3 October 2002 (2002-10-03) claim 25 -----	24-26
X	DATABASE Geneseq [Online] 2 December 2004 (2004-12-02), "S. pyogenes - hyperimmune system reactive antigen Spy0269." XP002334513 retrieved from EBI accession no. GSN:ADR83896 Database accession no. ADR83896 the whole document	24-26
E	-& WO 2004/078907 A (INTERCELL AG; MEINKE, ANDREAS; NAGY, ESZTER; WINKLER, BIRGIT; GELBMANN) 16 September 2004 (2004-09-16) claim 11 -----	24-26
A	FERRETTI J J ET AL: "Complete genome sequence of an M1 strain of Streptococcus pyogenes" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA; NATIONAL ACADEMY OF SCIENCE. WASHINGTON, US, vol. 98, no. 8, 10 April 2001 (2001-04-10), pages 4658-4663, XP002168716 ISSN: 0027-8424 the whole document ----- -/--	1-27

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>OLIVE C ET AL: "Protection of mice from group A streptococcal infection by intranasal immunisation with a peptide vaccine that contains a conserved M protein B cell epitope and lacks a T cell autoepitope"</p> <p>VACCINE, BUTTERWORTH SCIENTIFIC. GUILDFORD, GB, vol. 20, no. 21-22, 21 June 2002 (2002-06-21), pages 2816-2825, XP004357806</p> <p>ISSN: 0264-410X</p> <p>the whole document</p> <p>-----</p>	1-27

# INTERNATIONAL SEARCH REPORT

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0234771	A	02-05-2002	AU 1412702 A	06-05-2002
			CA 2425303 A1	02-05-2002
			EP 1328543 A2	23-07-2003
			MX PA03003690 A	05-05-2004
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WO 02077183	A	03-10-2002	NONE	
-----				
WO 2004078907	A	16-09-2004	AU 2004218284 A1	16-09-2004
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